

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 015280-148100US U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/501,611
INTERNATIONAL APPLICATION NO. PCT/US03/01622	INTERNATIONAL FILING DATE 01/17/2003	PRIORITY DATE CLAIMED 01/18/2002
TITLE OF INVENTION ALTERATION OF RAB38 FUNCTION TO MODULATE MAMMALIAN PIGMENTATION		
APPLICANT(S) FOR DO/EO/US PAVEN, William J., and LOFTUS, Stacie K.		

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☐ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☒ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A Communication Under 37 CFR 1.821-1.825 and Preliminary Amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☒ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="text-align: center;">10/501,611</div>	INTERNATIONAL APPLICATION NO. <div style="text-align: center;">PCT/US03/01622</div>	ATTORNEY'S DOCKET NUMBER <div style="text-align: center;">015280-148100US</div>												
20. Other items or information: Express Mail Label No.: EV 566969213 US; copy of Notification of Defective Response; Communication Under 37 CFR 1.821-1.825 and Amendment with paper copy of Sequence Listing; CRF of Sequence Listing; Postcard														
The following fees have been submitted		CALCULATIONS PTO USE ONLY												
21. <input type="checkbox"/> Basic national fee (37 CFR 1.492(a)) \$300	\$													
22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 All other situations \$200	\$													
23. <input type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400 All other situations \$500	\$													
TOTAL OF 21, 22 and 23 =		\$												
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Total Sheets</td> <td style="width: 20%;">Extra Sheets</td> <td style="width: 40%;">Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td style="width: 20%;">RATE</td> </tr> <tr> <td style="text-align: center;">- 100 =</td> <td style="text-align: center;">/50 =</td> <td></td> <td style="text-align: center;">x \$250</td> </tr> </table>	Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	- 100 =	/50 =		x \$250	\$					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE											
- 100 =	/50 =		x \$250											
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$ 130												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">CLAIMS</td> <td style="width: 20%;">NUMBER FILED</td> <td style="width: 20%;">NUMBER EXTRA</td> <td style="width: 20%;">RATE</td> </tr> <tr> <td>Total claims</td> <td style="text-align: center;">- 20 =</td> <td></td> <td style="text-align: center;">x \$ 50</td> </tr> <tr> <td>Independent claims</td> <td style="text-align: center;">- 3 =</td> <td></td> <td style="text-align: center;">x \$200</td> </tr> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	- 20 =		x \$ 50	Independent claims	- 3 =		x \$200	\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE											
Total claims	- 20 =		x \$ 50											
Independent claims	- 3 =		x \$200											
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360		\$												
TOTAL OF ABOVE CALCULATIONS =		\$												
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		\$												
SUBTOTAL =		\$												
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). +		\$												
TOTAL NATIONAL FEE =		\$												
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		\$												
TOTAL FEES ENCLOSED =		\$												
		<table style="width: 100%;"> <tr> <td style="width: 60%;">Amount to be refunded:</td> <td style="width: 40%; text-align: center;">\$</td> </tr> <tr> <td>Amount to be charged:</td> <td style="text-align: center;">\$</td> </tr> </table>	Amount to be refunded:	\$	Amount to be charged:	\$								
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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="text-align: center;">10/501,611</div>	INTERNATIONAL APPLICATION NO. <div style="text-align: center;">PCT/US03/01622</div>	ATTORNEY'S DOCKET NUMBER <div style="text-align: center;">015280-148100US</div>
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a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
 b. ☒ Please charge my Deposit Account No. 20-1430 in the amount of \$ _ to cover the above fees.
 A duplicate copy of this sheet is enclosed.
 c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to
 Deposit Account No. 20-1430. A duplicate copy of this sheet is enclosed.
 d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information**
 should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Chuan Gao
 TOWNSEND AND TOWNSEND AND CREW LLP
 Two Embarcadero Center, Eighth Floor
 San Francisco, CA 94111-3834



 SIGNATURE

Chuan Gao

 NAME

54.111

 REGISTRATION NUMBER

60695349 v1



UNITED STATES PATENT AND TRADEMARK OFFICE

015280-148100US
C2G, SF/CC: DMW, SF

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/501,611	William J Pavan	015280-148100US

INTERNATIONAL APPLICATION NO.	
PCT/US03/01622	
I.A. FILING DATE	PRIORITY DATE
01/17/2003	01/18/2002

Kenneth A Weber
Townsend and Townsend and Crew
Two Embarcadero center 8th floor
San Francisco, CA 94111-3834

CONFIRMATION NO. 2224

371 FORMALITIES LETTER



OC000000017774225

Sequence requirement 02/05/06

Date Mailed: 01/05/2006

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- Priority Document
- Copy of the International Application filed on 07/14/2004
- Copy of the International Search Report filed on 07/14/2004
- Oath or Declaration filed on 10/20/2005
- Biochemical Sequence Listing filed on 07/14/2004
- Request for Immediate Examination filed on 07/14/2004
- U.S. Basic National Fees filed on 07/14/2004
- Priority Documents filed on 07/14/2004
- Power of Attorney filed on 07/14/2004

Applicant's response filed 10/20/2005 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 06/22/2005 have not been completed.

- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

AME

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

SHELBY J VIGIL

Telephone: (703) 308-9140 EXT 224

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/501,611	PCT/US03/01622	015280-148100US

FORM PCT/DO/EO/916 (371 Formalities Notice)